

**ABSTRACT**

Diagnostic and therapeutic compositions in the form of complexes for enhancing  
5 transmembrane transport of a diagnostic or therapeutic agent and methods for their use.  
The complexes contain the  $\alpha$ ,  $\gamma$ , or bis isomers of folate receptor-binding analogs of folate,  
a metal chelated by a ligand, and in one embodiment, a chemotherapeutic agent.